# Minnesota State University Moorhead

# **SOC 551: Quantitative Methods**

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course focuses on the application of quantitative methods of research. Students will design a research project involving secondary data analysis and report their findings. Developing writing skills and the ability to communicate scientific knowledge will be central to the primary course assignment.

### B. COURSE EFFECTIVE DATES: 05/05/2022 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

- 1. Social science research and writing
- 2. Secondary and online data bases
- 3. Statistical Package for Social Sciences
- 4. Descriptive statistics
- 5. Transforming data using Compute and Recode
- 6. Hypothesis testing
- 7. Chi square, Te-tests and ANOVA, Bivariate correlation, creating and interpreting dummy variables, OLS Linear Regression, and Logistic Regression
- 8. Presentation of research findings

#### D. LEARNING OUTCOMES (General)

- 1. Apply the logic of scientific analysis to research involving secondary data.
- 2. Analyze data using a statistical package for social sciences.
- 3. Locate, use, and cite scholarly material from print and electronic resources.
- 4. Evaluate, synthesize, and integrate information from diverse points of view.
- 5. Conduct informed and critical reading of scientific research reported in scholarly journals.
- 6. Consult with others in the production of quality written products.
- 7. Write a research paper in the style of manuscripts published in social science journals by selecting a topic, reviewing past research, and preparing and revising drafts.
- 8. Conduct research appropriately and ethically.
- 9. Create and interpret dummy variables.
- 10. Understand and use OLS Linear Regression and Logistic Regression

#### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

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## F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

## **G. SPECIAL INFORMATION**

None noted

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